



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/575,275

04/11/2006

Hasse Sinivaara

60091.00457

7231

32294

7590

03/05/2009

SQUIRE, SANDERS & DEMPSEY L.L.P.
8000 TOWERS CRESCENT DRIVE
14TH FLOOR
VIENNA, VA 22182-6212

EXAMINER

DAGLAWI, AMAR A

ART UNIT

PAPER NUMBER

2618

MAIL DATE

DELIVERY MODE

03/05/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/575,275	Applicant(s) SINIVAARA, HASSE	
	Examiner AMAR DAGLAWI	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>04/11/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Karaoguz et al (US 2002/0059434 A1).

With respect to claim 1, Karaoguz teaches method for discovering services for a wireless multimode terminal with a plurality of radio interfaces, the method comprising the steps of (abstract, par [0008-0017])

in a mobile network, sending an indication to a multimode terminal operably connected to the mobile network, the indication indicating that services may be locally available via at least one short-range wireless network; receiving the indication in the multimode terminal (Fig.4, par [0044]-par [0050], par [0008-0017], abstract)

- based on the indication, collecting service information about services for the multimode terminal available through at least one short-range radio interface of the multimode terminal (Fig.4, par [0044-0050], par [0008-0017], abstract, Fig.5); and

- based on the service information collected, compiling a service list describing at least one service available through the at least one short-range radio interface (Fig.4, par [0044-0050], par [0008-0017], abstract, Fig.5)

Art Unit: 2618

3. With respect to claim 2, Karaoguz further teaches attempting to detect at least one short-range wireless network through at least one short range radio interface of the multi-mode terminal and gathering the service information through the at least one short range radio interface (Fig.3, Fig.4, par [0044-0050], abstract, fig.10).

4. With respect to claim 3, Karaoguz further teaches the attempting and gathering steps are performed for one short-range radio interface at a time (Fig.3, Fig.4, par [0044-0050], abstract).

With respect to claim 4, Karaoguz further teaches a step of controlling the multimode terminal to a power save state with respect to a short-range radio interface after service information is collected through that short-range radio interface or if no network is detected through that short- range radio interface (Fig.3, Fig.4, par [0044-0050]).

With respect to claim 5, Karaoguz further teaches attempting step includes attempting to detect short range wireless networks corresponding to all short range radio interfaces of the multimode terminal (Fig.3, Fig.4, par [0044-0050]).

With respect to claim 6, Karaoguz further teaches storing user preference data in the multimode terminal based on the preference data and the service information collected in the collecting step selecting one short range wireless network and establishing communications with the short range wireless network selected (Fig.6, Fig.4, Fig.3, par [0044-0050]).

Art Unit: 2618

With respect to claim 7, Karaoguz further teaches the indication includes instructive information for the collecting step (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 8, Karaoguz further teaches the instructive information includes at least one network address (Fig.14).

With respect to claim 9, Karaoguz further teaches the service information is collected through a radio interface by which the multimode terminal is operably connected to the mobile network (Fig.14).

With respect to claim 10, Karaoguz further teaches the collecting step includes the steps of extracting the at least one network address from the indication and gathering the service information based on the at least one network address (Fig.14).

With respect to claim 11, Karaoguz further teaches the network address is an IP address (Fig.14).

With respect to claim 12, Karaoguz further teaches the instructive information indicates at least one short range radio interface for each service available locally (Fig.14).

With respect to claim 13, karaoguz further teaches the collecting step includes the steps of: attempting to detect at least one of the at least one short-range wireless network through at least one of the at least one short-range radio interface indicated by the instructive information; and gathering the service information through

Art Unit: 2618

the at least one of the at least one short-range-radio interface (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 14, Karaoguz further teaches a step of presenting the service list to a user of the multi-mode terminal (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 15, Karaoguz further teaches the compiling step includes compiling the service list according to a user preference (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 16, Karaoguz further teaches presenting step further includes presenting a required connectivity standard for each of the at least one service (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 17, Karaoguz further teaches the service list includes service providers corresponding to at least one service (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 18, Karaoguz further teaches a step of querying the user of the multimode terminal (Fig.14).

With respect to claim 19, Karaoguz further teaches sending the indication as part of system information sent in the mobile network (Fig.14).

With respect to claim 20, Karaoguz further teaches maintaining a service data service database in the mobile network the service database including service-related data for the indication (Fig.14).

Art Unit: 2618

With respect to claim 21, Karaoguz teaches A system for discovering services for a wireless multimode terminal, the system including in a mobile network (abstract, Fig.14):

- indication means for sending an indication to a multimode terminal operably connected to the mobile network, the indication indicating that services may be locally available for the multimode terminal via at least one short-range wireless network (Fig.4, par [0044-0050], par [0008-0017], Figs.5-6);

the system further including in the multimode terminal (Fig.4);

- a first radio interface with a mobile network and at least one short-range radio interface (Fig.4, Fig.3, par [0044-0050], par [0008-0017]);

- reception means for receiving the indication through the first radio interface (Fig.4, Fig.3, par [0044-0050], par [0008-0017], Fig.6);

- information collection means, responsive to the reception means, for collecting service information about services available via at least one of the at least one short-range wireless network (Fig.4, Fig.3, par [0044-0050], par [0008-0017], Fig.6); and service indication means for compiling a service list based on the service information collected, the service list describing at least one service available via the at least one of the at least one short-range wireless network (Fig.4, Fig.3, par [0044-0050], par [0008-0017], Fig.6).

Art Unit: 2618

With respect to claim 22, Karaoguz further teaches the information collection means are configured to attempt to detect at least one of the least one short range wireless network in response to the indication (Fig.4, Fig.3, par [0044-0050], par [0008-0017]).

With respect to claim 23, Karaoguz further teaches the indication means are configured to send the indication as system information sent to terminals in the mobile network (Fig.4, Fig.3, par [0044-0050], par [0008-0017]).

With respect to claim 24, Karaoguz further teaches the indication means are configured to send instructive information for the information collecting means (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 25, Karaoguz further teaches the service list includes information about a connectivity standard for at least one service (Fig.6, Fig.4, Fig.3, par [0044-0050]).

With respect to claim 26, Karaoguz further teaches the information collection means are configured to retrieve the service information from a network address included in the indication (Fig.14).

With respect to claim 27, Karaoguz teaches A wireless multimode terminal, the multimode terminal including (abstract, Fig.4):
a first radio interface operably connectable to a mobile network (Fig.3, Fig.4, par [0044-0050]);
at least one short-range radio interface (Fig.4, Fig.6),

Art Unit: 2618

- reception means for receiving an indication through the first radio interface, the indication indicating that services may be locally available for the multimode terminal via at least one short-range wireless network (Fig.3, Fig.4, Fig.6, par [0044-0050], par [0008-0017]);
- information collection means, responsive to the reception means, for collecting service information about services available via at least one of the at least one short-range wireless network (Fig.3, Fig.4, Fig.6, par [0044-0055], par [0008-0017]); and
- service indication means for compiling a service list based on the service information collected, the service list describing at least one service available via the at least one of the at least one short-range wireless network (Fig.3, Fig.4, Fig.6, par [0044-0055], par [0008-0017]).

With respect to claim 28, Karaoguz further teaches the information collections means are configured to attempt to detect the at least one of the at least one short range wireless network in response to the indication (fig.14).

With respect to claim 29, Karaoguz further teaches the information collection means are configured to activate one short-range radio interface at a time (Fig.3, Fig.4, Fig.6, par [0044-0055], par [0008-0017]).

With respect to claim 30, karaoguz further teaches the information collection means are further configured to control an activated short-range radio interface to a power save state after service information is collected through the activated short-range

Art Unit: 2618

radio interface or if no network is detected through the activated short-range radio interface (Fig.3, Fig.4, Fig.6, par [0044-0055], par [0008-0017]).

With respect to claim 31, Karaoguz further teaches the information collection means arte configured to retrieve the service information from a network address included in the indication (Fig.3, Fig.4, Fig.6, par [0044-0055], par [0008-0017]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMAR DAGLAWI whose telephone number is (571)270-1221. The examiner can normally be reached on Monday- Friday (7:30 AM- 5:00 AM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NGUYEN DUC can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/575,275

Page 10

Art Unit: 2618

Amar Daglawi
Examiner
Art Unit 2618

/Amar Daglawi/
Examiner, Art Unit 2618

/Duc Nguyen/

Supervisory Patent Examiner, Art Unit 2618